

$$\begin{aligned}
7. \quad \frac{5}{x+3} &= \frac{8+x}{x+3} - 3 \\
\Rightarrow \text{LCD for the expressions is } x+3. \\
\Rightarrow (x+3) \left(\frac{5}{x+3} \right) &= (x+3) \left(\frac{8+x}{x+3} \right) - 3(x+3) \\
\Rightarrow 5 &= (8+x) - 3(x+3) \\
\Rightarrow 5 &= -2x - 1 \\
\Rightarrow 0 &= -2x - 6 \\
\Rightarrow x &= -3 \quad (\text{Check! } -3 \text{ is extraneous.})
\end{aligned}$$

$\therefore$ The solution set is $\boxed{\{\} \text{ or } \phi}$.

$$\begin{aligned}
8. \quad \frac{x+1}{3x+1} &= \frac{5x+4}{3x^2-5x-2} - \frac{2}{x-2} \\
\Rightarrow \text{LCD for the expressions is } (3x+1)(x-2). \\
\Rightarrow (3x+1)(x-2) \left(\frac{x+1}{3x+1} \right) \\
&= \left(\frac{5x+4}{(3x+1)(x-2)} - \frac{2}{x-2} \right) (3x+1)(x-2) \\
\Rightarrow (x-2)(x+1) &= 5x+4 - 2(3x+1) \\
\Rightarrow x^2 - x - 2 &= -x + 2 \\
\Rightarrow x^2 - 4 &= 0 \\
\Rightarrow (x+2)(x-2) &= 0 \\
\Rightarrow x &= \pm 2 \quad (\text{Check! } 2 \text{ is extraneous.})
\end{aligned}$$

$\therefore$ The solution set is $\boxed{\{-2\}}$.

$$\begin{aligned}
9. \quad [2x+3] &= x-4 \\
\Rightarrow (2x+3)^2 &= (x-4)^2 \quad (\text{Square both sides.}) \\
\Rightarrow (2x+3)^2 - (x-4)^2 &= 0 \\
\Rightarrow [(2x+3) + (x-4)][(2x+3) - (x-4)] &= 0 \quad (\text{DOTS}) \\
\Rightarrow (3x-1)(x+7) &= 0 \\
\Rightarrow x &= \frac{1}{3}, x = -7 \quad (\text{Check! Both are extraneous.})
\end{aligned}$$

$\therefore$ The solution set is $\boxed{\{\} \text{ or } \phi}$.

$$\begin{aligned}
10. \quad [3x-5] - 3 &= 1 \\
\Rightarrow [3x-5] &= 4 \\
\Rightarrow 3x-5 &= 4 \text{ or } 3x-5 = -4 \\
\text{(a) } 3x-5 &= 4 \Rightarrow 3x = 9 \Rightarrow x = 3 \\
\text{(b) } 3x-5 &= -4 \Rightarrow 3x = 1 \Rightarrow x = \frac{1}{3}
\end{aligned}$$

$\therefore$ The solution set is $\boxed{\{\frac{1}{3}, 3\}}$.

$$\begin{aligned}
11. \quad [4x-7] &= -1 \\
\Rightarrow \text{The left hand side of the equation is greater than or} \\
&\text{equal to zero, while the right hand side is negative.} \\
\therefore \text{The solution set is } &\boxed{\{\} \text{ or } \phi}.
\end{aligned}$$

$$\begin{aligned}
12. \quad [x-1]^2 + 6[x-1] - 7 &= 0 \\
\Rightarrow \text{Let } \heartsuit &= [x-1]. \text{ The equation now becomes} \\
\heartsuit^2 + 6\heartsuit - 7 &= 0
\end{aligned}$$

$$\begin{aligned}
\Rightarrow (\heartsuit + 7)(\heartsuit - 1) &= 0 \\
\Rightarrow \heartsuit &= -7, \heartsuit = 1 \\
\Rightarrow [x-1] &= -7 \text{ or } [x-1] = 1
\end{aligned}$$

$$\text{(a) } [x-1] = -7 \text{ has no solution since } -7 < 0.$$

$$\begin{aligned}
\text{(b) } [x-1] &= 1 \\
\Rightarrow x-1 &= 1 \text{ or } x-1 = -1 \\
\Rightarrow x &= 2 \text{ or } x = 0
\end{aligned}$$

$\therefore$ The solution set is $\boxed{\{0, 2\}}$.

$$\begin{aligned}
13. \quad (x^2 - 2x)^2 - 3(x^2 - 2x) - 4 &= 0 \\
\Rightarrow \text{Let } \clubsuit &= x^2 - 2x. \text{ The equation now becomes} \\
\clubsuit^2 - 3\clubsuit - 4 &= 0
\end{aligned}$$

$$\begin{aligned}
\Rightarrow (\clubsuit - 4)(\clubsuit + 1) &= 0 \\
\Rightarrow \clubsuit &= 4, \clubsuit = -1 \\
\Rightarrow x^2 - 2x &= 4, x^2 - 2x = -1 \\
\Rightarrow x^2 - 2x - 4 &= 0 \text{ or } x^2 - 2x + 1 = 0
\end{aligned}$$

$$\text{(a) } x^2 - 2x - 4 = 0$$

Using the Quadratic Formula, we get

$$x = \frac{2 \pm \sqrt{20}}{2} = 1 \pm \sqrt{5}$$

$$\text{(b) } x^2 - 2x + 1 = 0$$

$$\begin{aligned}
\Rightarrow (x-1)^2 &= 0 \\
\Rightarrow x &= 1
\end{aligned}$$

$\therefore$ The solution set is $\boxed{\{1, 1 - \sqrt{5}, 1 + \sqrt{5}\}}$.

$$14. \quad x^{2/3} + 2x^{1/3} - 3 = 0$$

$\Rightarrow$ Let $\diamond = x^{1/3}$. The equation now becomes

$$\diamond^2 + 2\diamond - 3 = 0$$

$$\Rightarrow (\diamond + 3)(\diamond - 1) = 0$$

$$\Rightarrow \diamond = -3, \diamond = 1$$

$$\Rightarrow x^{1/3} = -3, x^{1/3} = 1$$

$$\Rightarrow x = (-3)^3 \text{ or } x = 1^3$$

$$\Rightarrow x = -27 \text{ or } x = 1$$

(Check! Both are valid.)

$\therefore$ The solution set is $\boxed{\{-27, 1\}}$.

$$15. \quad x^5 - 4x^3 - 8x^2 + 32 = 0$$

$\Rightarrow$ Grouping the first 2 terms and last 2 terms, then factoring out the common factors, we get

$$x^3(x^2 - 4) - 8(x^2 - 4) = 0$$

$$\Rightarrow (x^3 - 8)(x^2 - 4) = 0 \quad ((x^2 - 4) \text{ is a common factor.})$$

$$\Rightarrow (x-2)(x^2 + 2x + 4)(x+2)(x-2) = 0$$

$$\Rightarrow (x-2)^2(x+2)(x^2 + 2x + 4) = 0$$

$$\Rightarrow x = \pm 2$$

($x^2 + 2x + 4$) has no real roots.)

$\therefore$ The solution set is $\boxed{\{-2, 2\}}$.

$$16. \quad 1 < -3x + 4 \leq 10$$

$$\Rightarrow -3 < -3x \leq 6$$

$$\Rightarrow \frac{-3}{-3} > \frac{-3x}{-3} \geq \frac{6}{-3}$$

($-3 < 0$, so $<$ becomes $>$.)

$$\Rightarrow 1 > x \geq -2$$

$$\Rightarrow -2 \leq x < 1$$

$\therefore$ The solution set is $\boxed{[-2, 1)}$.

$$17. \quad x + 4 \leq 3x + 1 \leq 2x + 3$$

$$\Rightarrow x + 4 \leq 3x + 1 \text{ and } 3x + 1 \leq 2x + 3$$

$$\Rightarrow 3 \leq 2x \text{ and } x \leq 2$$

$$\Rightarrow x \in [\frac{3}{2}, +\infty) \cap (-\infty, 2] = [\frac{3}{2}, 2]$$

$\therefore$ The solution set is $\boxed{[\frac{3}{2}, 2]}$.

$$18. \quad 5 + x \leq 4x + 1 \leq -4 + 2x$$

$$\Rightarrow 5 + x \leq 4x + 1 \text{ and } 4x + 1 \leq -4 + 2x$$

$$\Rightarrow 4 \leq 3x \text{ and } 2x \leq -5$$

$$\Rightarrow x \in [\frac{4}{3}, +\infty) \cap (-\infty, -\frac{5}{2}] = \{\}$$

$\therefore$ The solution set is $\boxed{\{\} \text{ or } \phi}$.

$$19. \quad (x+4)(x-2) < -5x$$

$$\Rightarrow x^2 + 2x - 8 < -5x$$

$$\Rightarrow x^2 + 7x - 8 < 0$$

$$\Rightarrow (x+8)(x-1) < 0$$

$$\Rightarrow \text{CN's are } -8 \text{ and } 1.$$

Table of Signs:

	$(-\infty, -8)$	$(-8, 1)$	$(1, \infty)$
$(x+8)$	-	+	+
$(x-1)$	-	-	+
<i>LHS</i>	+	-	+

$\therefore$ The solution set is $\boxed{(-8, 1)}$.

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**Judith A. Penna, Marvin L.
Bittinger, David J. Ellenbogen**



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